

Wastelines

\$ Save a Watt — Save a Lot \$ **Conserve Energy and Prevent Pollution** **Pollution Prevention Week — September 16 — 22**



This year's regional theme for Pollution Prevention (P2) Week is *\$ Save a Watt – Save a Lot \$, Conserve Energy and Prevent Pollution*. P2 Week was created in 1996 to highlight and promote the many benefits of pollution prevention. This year, the event

will be celebrated September 16-22.

Conserving energy and using clean power will directly contribute to improvements in air quality and public health. Conserving energy reduces the amount of fuel that power plants must burn, thereby reducing combustion emissions at their source.

There are many ways to improve the energy efficiency of your business, office, and home. You can practice energy-saving habits, invest in energy-efficient technologies and products, and make some easy-to-do energy basic home or business improvements. Here are some energy saving tips and websites for your business and home.

WEB RESOURCES

- **NH Governor's Office of Energy and Community Services**
www.state.nh.us/governor/energycomm/assist/fap
- **Alliance to Save Energy**
www.ase.org
- **Energy Star Information**
www.energystar.gov
- **Clean Air/Cool Planet**
www.cleanair-coolplanet.org
- **Green Car Group**
www.greencars.com

ENERGY SAVING TIPS FOR OFFICES AND HOMES

*The average car emits approximately a pound of carbon dioxide for every mile driven. Drive a fuel-efficient car that gets 30 miles-per-gallon or more. Better yet, start walking, carpooling, or riding a bike whenever you can.

*One computer left on all day results in the emission of 1,500 pounds of carbon dioxide in one year. Turn off your computer when not in use. Putting your computer in sleep mode will save 20 watts or more.

*Look for the ENERGY STAR label when shopping. This label is on over 30 product categories (and thousands of models) for home and office items. These products deliver the same or better performance as comparable models, while using less energy and saving money.

*Get involved! Talk with the people at your company or business about what you can do to reduce the company's use of energy. Try switching to energy efficient compact fluorescent light bulbs; draft-proofing windows and doors; and using ceiling fans that push warm air to the floor in the winter and circulate cool air in the summer.

INSIDE THIS ISSUE

Computer Recycling	2
Keene Receives Grant to Use Biodiesel ..	3
2003 Governor's P2 Award	4
P2 Library Listings	5
Wanted: Speakers for P2 Conference ...	5



An Afterlife For Your Old Computers

By Christopher Way, Planning and Community Assistance
DES Waste Management Division

Rapid changes in technology are aging computer equipment very quickly, with new computers becoming obsolete in three years or less. However, less than 3 percent of all computers are being recycled. If you're like a lot of businesses, simply throwing them in the trash is not the legal or socially responsible action. So what are the alternatives?

Old computers usually find their way to the landfill or the incinerator, even though valuable landfill capacity is depleted and there is the potential for harmful incinerator emissions. Of particular concern are the cathode ray tubes (CRTs), which are the glass tubes

inside monitors and televisions, and can contain five to eight pounds of lead. Computers can also contain mercury and plastics, which are not easily recycled. Presently, it costs about \$10 to recycle a monitor.

CRTs are considered a *Universal Waste* once they are *no longer usable or repairable*, and either need to be recycled, donated, or sent to a hazardous waste disposal facility. CRTs should be stored in a manner that does not pose a hazard or result in breakage. You can find specific rules for universal wastes (Env-Wm 1101-1114) on the DES website at www.des.state.nh.us/pcas.

What are your choices?

Reuse: Why purchase a new monitor with each computer, if the old one will suffice? Most monitors will work fine with the current computers and you avoid the cost of removing the old monitor.

Upgrade: Upgrading your old computer can result in significant savings on recycling and disposal charges. Purchase computers that are easily disassembled so that parts can be exchanged.

Donate: There are many nonprofit organizations that would benefit from donations of good computers. Larger businesses can take advantage of recent tax deductions when working computers are given to schools, provided the donations fit into the school's curriculum. If the computers are "higher end" (Pentium 200 or above) and in good shape, consider donations to the Governor's Computers in the Schools

(CITS) Program (603-271-1098). Always check first with the intended recipient before making any computer donations.

Recycle: Do so in an environmentally responsible way. Consider a vendor that will take apart the unit and recycle the individual components.

Helpful DES Links:

CRT Fact Sheet

www.des.state.nh.us/factsheets/hw/hw-25

Vendors for Computer Recycling Programs

www.des.state.nh.us/comp_recyclers

Current Computer "Take Back" Program

www.des.state.nh.us/pcas/takeback

Solutions for Municipalities

www.des.state.nh.us/pcas/hhma

While We're on the Topic of Recycling, Consider Recycling Your Tyvek Envelopes

DuPont now offers three ways for businesses to recycle their Tyvek pouches.

♦ Companies that generate less than 25 envelopes per month can turn one envelope inside out and stuff the remaining envelopes into it. The package can be mailed to: Dupont Tyvek; CRP-Bldg. 728; 4417 Lancaster Pike; Wilmington, DE 19805-0705.

♦ Companies with more than 25 but less than 500 envelopes per month can call 1-800-44-TYVEK for a recycling pouch that comes with a preaddressed shipping label.
♦ Companies with more than 500 envelopes per month should call Terry Fise at 1-800-222-5676 to set up a custom program.



Your Environmental Questions Are Answered!!!

NHPPP realizes that a lot of the questions we receive and answer would benefit all our *Wastelines* readers. Therefore, *Wastelines* will start posting common questions and their answers in

this section of the newsletter. If you have a question you would like to see answered, please e-mail cschwalbe@des.state.nh.us. In this issue, NHPPP answers a common question we receive on disposal of fluorescent light bulbs.

continued on page 3

Why can't I throw my Florescent light bulbs in the trash?

Fluorescent bulbs contain a **small quantity of mercury** that may pose a hazard to human health or the environment when improperly managed. Fluorescent lighting is still a good environmental and economic choice, as it reduces the electricity needed from power plants, resulting in reduced fuel combustion emissions, and savings for customers. Waste lamps generated by businesses, industry and institutions may not be disposed of as a solid waste and should instead be handled as a "universal waste" or hazardous waste. If managed as a hazardous waste, they must be properly stored, listed on a manifest, and disposed of by a hazardous waste hauler. If managed as a universal waste, the bulbs must be kept unbroken and may be collected by a

universal waste handler or self-transported to a recycling facility or approved disposal site without the need for a manifest.

Some towns accept universal wastes either at a household hazardous waste collection event or at the local solid waste facility. For more information, the DES fact sheet Universal Waste Lamps: Management and Requirements for Handlers and Transporters is available at www.des.state.nh.us/factsheets/hw/hw-7, or may be requested from the DES Public Information Center at (603) 271-2975. DES also offers a list of vendors that recycle fluorescent lamps and ballasts (www.des.state.nh.us/pcas/lamplist).

NH Industries of the Future Receives \$100,000 Grant For Energy Saving and Waste Reduction

The New Hampshire Industries of the Future (NHIOF) has received a \$100,000 grant from the U.S. Department of Energy for fiscal year 2003. This grant will support a variety of energy-saving and waste-reduction actions for industries working with NHIOF. Coordinators of the program include the Governor's Office of Energy and Community Services (ECS), and the Business and Industry Association's WasteCap Resource Conservation Network (WasteCap). This year's grant

will offer opportunities to link businesses to such energy saving opportunities as energy audits and to identify more efficient manufacturing technologies. For more information on how this could assist your business, contact Betsy Blaisdell, at the Governor's Office of Energy, 271-8342 or e-mail bblaisdell@www.gov.state.nh.us. For more information on NHIOF, visit www.nhiof.org.

City of Keene Receives Grant To Use Biodiesel Fuel

Thanks to a grant from the Governor's Office of Energy and Community Service (ECS), the City of Keene will be burning the diesel fuel alternative, B20 biodiesel, in approximately 40 percent of their vehicles and equipment. This makes Keene the first community in New Hampshire to use biodiesel extensively in its fleet. Keene operates a fleet of 138 vehicles and pieces of equipment, with 57 of these operating with diesel engines. The use of biodiesel supports the goals of Keene's Climate Protection Committee to reduce the amount of greenhouse gases from city operations. Since the cost of biodiesel is slightly higher than current diesel fuel, the ECS is willing to support the City's use of biodiesel as a clean burning alternative to diesel fuel through this grant. The grant will pay the difference between biodiesel and regular diesel; the price difference is \$0.20 cents per gallon more for biodiesel.

What is biodiesel?

Biodiesel is a clean, renewable diesel fuel substitute/additive produced from agricultural resources such as soybeans or rapeseed (canola), or recycled cooking oil from restaurants. It can be burned in any standard, unmodified diesel engine, either in pure form (B100) or in a blend (B20), at any proportion

with petroleum diesel. Pure biodiesel is completely biodegradable and non-toxic to plants, animals, and humans.

Biodiesel integrates easily with current engine technology and fueling infrastructure. It is the first clean fuel that does not require fleets to purchase new vehicles or construct new facilities. Using biodiesel in a conventional diesel engine substantially reduces emissions of unburned hydrocarbons, carbon monoxide, sulfates, polyaromatic hydrocarbons, and particulate matter.

Current biodiesel fleets have reported operational consistency over extended periods of use. Engine performance, payload power and range are completely unaltered. Biodiesel is registered with the U.S. Environmental Protection Agency (EPA) as a fuel and fuel additive, and meets clean diesel standards established by the California Air Resources Board. B100 is a recognized alternative fuel by the U.S. Department of Energy (DOE) and the U.S. Department of Transportation (DOT). For more information, contact Stephen Russell, Keene Fleet Services Superintendent, 603-357-9870, ext. 6312.

The Top Ten Reasons Why You Should Apply for the 2003 Governor's Award for Pollution Prevention!



10. Approximately 120 people will be on the edge of their seats listening to your acceptance speech at the Annual Pollution Prevention Conference on April 21, 2003.
9. You will get to spend a day away from the office in beautiful Durham.
8. It's a pretty good chance that it won't snow for your commute to accept the award at UNH, given that the date of the 2003 Annual Pollution Prevention Conference is April 21.
7. A free, gourmet lunch is provided at the New England Center *Acorn's* restaurant.
6. There is free parking in the spacious, well-paved UNH parking lots.
5. Winners get their picture taken with the newly elected New Hampshire Governor (dress nicely).
4. Lots of free PR! Your company's efforts will be announced on the Internet, in the local newspapers, and business magazines as a winner of the award.
3. Your competitors will be green with envy.
2. Did we mention, as a winner, you would receive free registration for the 2003 Annual Pollution Prevention Conference?
1. Winners receive a beautiful, New Hampshire granite trophy to keep and display at their company.

*Is your company working to reduce or eliminate the use or generation of a waste?

*Has your company been working to reduce water usage or conserve energy?

*Did your company recently create an EMS?

If you would like to be recognized for your pollution prevention achievements, the New Hampshire Pollution Prevention Program invites you to apply for the 2003 Annual Governor's Award for Pollution Prevention. Applications for the award will be available beginning in November 2002. Please contact

Colleen Schwalbe at (603) 271-0878 or e-mail cschwalbe@des.state.nh.us for more information.

Here's what one of last year's winners had to say:
"Receiving your award has been quite a moral booster for Rockwell Automation Manchester employees. I've noticed a revitalized interest in recycling more of the waste streams that we generate. There has also been an increase in suggestions as to how we can streamline some of our processes. Your award is making my job easier!"
Pamela Bealo, Rockwell Automation's Environmental and Safety Coordinator

Regulatory Update: Storm Water Phase II Final Rule What Does This Mean for NH Municipalities?



The Storm Water Phase II Final Rule is the next step in the EPA's effort to preserve, protect, and improve water resources from polluted storm water runoff. The Storm Water Phase II Final Rule was published in the *Federal*

Register on December 8, 1999. As a result of this rule, towns must make important storm water management decisions by March 10, 2003. By this date, affected towns and businesses must either file a Notice of Intent to obtain a permit, or submit a "Certificate of No Exposure."

The Phase II program regulates two classes of storm water dischargers: operators of municipal separate storm sewer systems (MS4s) in urbanized areas; and operators of construction activities that disturb equal to or greater than one acre, and less than five acres of land. Storm water discharges from MS4s in urbanized areas are a concern because of the high concentration of pollutants (pesticides, fertilizers, oils, salts, litter, and other debris) found in these discharges. Pollutants from construction activities include solvents, asphalts, and acids that can contaminate storm water runoff. For additional information, including all Phase II Final Rule requirements, visit the EPA website at www.epa.gov/owm/sw/phase2, or contact Jack Healy, EPA Region 1, at (617) 918-1844.



P2 Library Listings A New Addition To Wastelines

Wastelines now includes a listing of new publications. Examples of listings may include newly published pollution prevention strategies and technologies, state and federal regulations, or best management practices for

specific sectors. If you are aware of a new publication that has assisted you in your business, please e-mail cschwalbe@des.state.nh.us.

Recent Publications from DES

Innovative Stormwater Treatment Technologies, Best Management Practices Manual, DES, May 2002.

www.des.state.nh.us/wmb/was/manual/

DES Fact Sheet WD-WSEB-1-16, *Water Supply Options During Droughts*. www.des.state.nh.us/factsheets/ws/ws-1.16

DES Fact Sheet ARD-35, *New Hampshire's Air Monitoring Network*. www.des.state.nh.us/factsheets/ard/ard-35

All of these publications are also available in hard copy from the DES Public Information Center at (603) 271-2975.

Calculating the Cost/Benefit Ratio of P2

Washington State Department of Ecology, Ecology Information Document, Publication Number 95-400, Revised August 2000.

Environmental managers know that pollution prevention measures end up saving their companies money in the long run. However, companies may have a hard time figuring out how much money will be saved, and when they can expect to see a return on investment. Proposed projects are often evaluated on the basis of "obvious costs" such as capital costs, raw materials, and utilities.

Unlike other projects, P2 improvements may offer significant "hidden" savings in the areas of regulatory compliance, waste disposal and treatment, insurance premiums, and other often overlooked expenses. Recent studies have found that businesses are making substantial errors in estimating the profitability of environmental projects because they neglect to

account for these special costs and savings.



While many pollution prevention opportunities cost very little to carry out and can be quite profitable, others must be analyzed carefully to weigh their profitability. This analysis involves identifying all the major and hidden costs involved in a current process and possible pollution prevention alternatives, and then comparing the costs and savings. If you are interested, a fact sheet from the Washington State Department of Ecology can help make that determination, as well as point out the rare instances when costs outweigh benefits. To learn more, visit www.ecy.wa.gov/pubs/95400.pdf.

Wanted: Speakers for the 2003 Pollution Prevention Conference Reward Offered *

New Hampshire is a leader among states where businesses willingly share their expertise and experience to help each other become more productive and to protect valuable resources. NHPPP is seeking businesses, consultants and other experts who have completed studies and projects, or know of new technologies to speak at the Eleventh Annual New Hampshire Pollution Prevention Conference. The conference will be held at the UNH New England Center, Durham on April 21, 2003.

NHPPP solicits presentations that demonstrate how pollution prevention improves environmental performance through the use of environmental waste audits; changes in manufacturing methods, technologies or processes; implementation of innovative technologies; or improvements in process efficiency.



Other issues of concern include the cost of project implementation; improving economic benefits and production quality; organizing management support and commitment; and ensuring employee participation.

Speaker papers will be selected based on substance, originality, and relevance to the attending audience. To propose a presentation, please submit a one-page abstract that includes the title of your presentation, author and speakers' names, title, affiliation, address, telephone, e-mail and brief personal biography by October 10, 2002. Submit abstracts to Sara Johnson, NHDES, 6 Hazen Drive, Concord, NH 03302, or e-mail nhppp@des.state.nh.us.

*Free parking, registration, lunch and our undying gratitude!



New Hampshire Department of Environmental Services
6 Hazen Drive
Concord, New Hampshire 03301

Return Service Requested

8707

Calendar of Events

September 16-22
Pollution Prevention Week

September 24
"Surveys and Safety: How to Improve
Environmental Management Systems"
8:30-10:30 am
Northeast Business Environmental Network
Location: To be announced
(978) 521-1020 www.nben.org

September 24, Littleton, NH
October 1, Concord, NH
October 17, Bedford, NH
"Air Permitting and Compliance-
What Every Business Should Know"
To register, call either DES (800) 498-6868
NHSBDC (603) 897-8484
BIA (800) 540-5388
Register on-line
www.des.state.nh.us/workshops/airquality

September 25
DES Solid Waste Conference
Fireside Inn and Suites, West Lebanon, NH
(603) 271-6847 or cway@des.state.nh.us

October 1
Workplace Safety and Training
Red Cross Training Center
Manchester, NH
(603) 897-8484 or aobrien@rivier.edu

November 14
Household Hazardous
Waste Refresher Course
Department of Environmental Services
Concord, NH
mdoiron@des.state.nh.us

April 21, 2003
2003 Annual Pollution Prevention Conference
University of New Hampshire
Durham, NH
www.unh.edu/P2/nhppp/conference

Receive Your Copy of **Wastelines** by E-mail

If you haven't yet signed up to
receive your copy of
Wastelines electronically and
are interested, please e-mail
cschwalbe@des.state.nh.us.
Just think of that extra step
you'll save in not having to
walk to the recycling bin with
your paper copy!

Wastelines is published by the

NEW HAMPSHIRE POLLUTION PREVENTION PROGRAM

For a free subscription, call, write, or e-mail

Managing Editor Colleen Schwalbe

6 Hazen Drive, Concord, New Hampshire 03301

1-800-273-9469

E-mail: cschwalbe@des.state.nh.us

web site: www.des.state.nh.us/nhppp

The New Hampshire Pollution Prevention Program (NHPPP) is a free, confidential, non-regulatory technical and compliance assistance program for New Hampshire businesses and others. The NHPPP maintains an information clearinghouse, conducts on-site pollution prevention opportunity assessments, provides pollution prevention planning assistance, and organizes conferences and workshops.



100% Recycled • 100% Post-Consumer • Process Chlorine-Free • Printed with Soy-Based Inks